

STEREO MOC Status Report
Time Period: 2014:041 - 2014:047

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:
 - On day 041, during the DSS-65 support, turbo decoder lock was lost intermittently beginning at 0853z through 1312z. This anomaly resulted in the loss of twelve frames of SSR data.
 - On day 045, during the DSS-45 support, turbo decoder lock was lost intermittently beginning at 2152z through 046-0145z due to heavy rain. At the end of track, the SSR pointers for were repositioned prior to the outage and all data was recovered on the next track. See DR# C110001 more information.
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2. The following spacecraft/instrument events occurred during this week:
 - On day 042, the 29th SECCHI stepped calibration was executed at 0625z for the perihelion in the orbit.
 - The average daily SSR playback volume for Ahead was 4.7 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies/events occurred during this reporting period:
 - On day 042, during the DSS-55 support, turbo decoder lock was lost briefly at 0858z. This anomaly resulted in the loss of one frame of SSR data.
 - On day 043, during the DSS-55 support, turbo decoder lock was lost briefly at 1444z. This anomaly resulted in the loss of one frame of SSR data.
 - On day 045, during the DSS-24 support, initial telemetry was established 3.7 hours late due to the X-band MASER

being declared red. Limited track time with DSS-25 allowed for SSR pointers to be repositioned just prior to EOT to avoid data loss. See DR #G114666 for more information.

2. The following spacecraft/instrument events occurred during this week:

- The full Reduced Gyro Operations (RGO) fault protection capability for the Behind observatory has been developed. Testing of the fault protection rules and load scripts has been completed on the hardware simulator (flatsat) and test data is being analyzed by the engineering team. The testing results will be discussed at the STEREO CCB on Thursday. RGO extends the life of the remaining IMU by keeping it off most of the time and turning it on only when high rate data is required, such as the periodic momentum dumps, instrument roll calibrations, and spacecraft safety.
- The average daily SSR playback volume for Behind was 3.9 Gbits during this week.